

CAS search: 09/06/01

Welcome to STN International! Enter x:x

LOGINID:sssptaul81jxs

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	Jun 03	New e-mail delivery for search results now available
NEWS	4	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS	5	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS	6	Aug 26	Sequence searching in REGISTRY enhanced
NEWS	7	Sep 03	JAPIO has been reloaded and enhanced
NEWS	8	Sep 16	Experimental properties added to the REGISTRY file
NEWS	9	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS	10	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS	11	Oct 24	BEILSTEIN adds new search fields
NEWS	12	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS	13	Nov 18	DKILIT has been renamed APOLLIT
NEWS	14	Nov 25	More calculated properties added to REGISTRY
NEWS	15	Dec 04	CSA files on STN
NEWS	16	Dec 17	PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS	17	Dec 17	TOXCENTER enhanced with additional content
NEWS	18	Dec 17	Adis Clinical Trials Insight now available on STN
NEWS	19	Jan 29	Simultaneous left and right truncation added to COMPENDEX, ENERGY, INSPEC
NEWS	20	Feb 13	CANCERLIT is no longer being updated
NEWS	21	Feb 24	METADEX enhancements
NEWS	22	Feb 24	PCTGEN now available on STN
NEWS	23	Feb 24	TEMA now available on STN
NEWS	24	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS	25	Feb 26	PCTFULL now contains images
NEWS	26	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS	27	Mar 20	EVENTLINE will be removed from STN
NEWS	28	Mar 24	PATDPAFULL now available on STN
NEWS	29	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS	30	Apr 11	Display formats in DGENE enhanced
NEWS	31	Apr 14	MEDLINE Reload
NEWS	32	Apr 17	Polymer searching in REGISTRY enhanced
NEWS	33	Jun 13	Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS	34	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS	35	Apr 28	RDISCLOSURE now available on STN
NEWS	36	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS	37	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS	38	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS	39	May 16	CHEMREACT will be removed from STN
NEWS	40	May 19	Simultaneous left and right truncation added to WSCA
NEWS	41	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS	42	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS	43	Jun 06	PASCAL enhanced with additional data

CAS search: 09/06/01

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:16:57 ON 16 JUN 2003

=> s (phycobilisome? or phycobillisome? or phycobilosome? or phycobilloosome? or cyanonobacteria or red(w)algae) and (waveguide? or fiber(3a)optic?)  
THIS COMMAND NOT AVAILABLE IN THE CURRENT FILE  
Some commands only work in certain files. For example, the EXPAND command can only be used to look at the index in a file which has an index. Enter "HELP COMMANDS" at an arrow prompt (=>) for a list of commands which can be used in this file.

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.05	1.05

FILE 'CAPLUS' ENTERED AT 16:19:39 ON 16 JUN 2003

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PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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FILE COVERS 1907 - 16 Jun 2003 VOL 138 ISS 25  
FILE LAST UPDATED: 15 Jun 2003 (20030615/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (phycobilisome? or phycobillisome? or phycobilosome? or phycobilloosome? or cyanonobacteria or red(w)algae) and (waveguide? or fiber(3a)optic?)  
957 PHYCOBILISOME?

CAS search: 09/06/01

2 PHYCOBILLISOME?  
3 PHYCOBILOSOME?  
0 PHYCOBILLOSOME?  
0 CYANONOBACTERIA  
334891 RED  
39096 ALGAE  
1741 RED(W)ALGAE  
38628 WAVEGUIDE?  
443169 FIBER  
787601 OPTIC?  
45366 FIBER(3A)OPTIC?

L1 1 (PHYCOBILLISOME? OR PHYCOBILOSOME? OR PHYCOBILLOSOME? OR CYANONOBACTERIA OR RED(W)ALGAE) AND (WAVEGUIDE? OR FIBER(3A)OPTIC?)

=> d

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AN 1996:657905 CAPLUS  
DN 126:4034  
TI Phycobiliproteins encapsulated in sol-gel glass  
AU Chen, Zhongping; Kaplan, D. L.; Yang, K.; Kumar, J.; Marx, K. A.; Tripathy, S. K.  
CS Development and Engineering Center, U.S. Army Natick Research, Natick, MA, 01760, USA  
SO Journal of Sol-Gel Science and Technology (1996), 7(1/2), 99-108  
CODEN: JSGTEC; ISSN: 0928-0707  
PB Kluwer  
DT Journal  
LA English

=> d ab

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS  
AB Light transducing phycobiliproteins are encapsulated in optically transparent sol-gel matrixes. Absorption and fluorescence spectroscopies are used to characterize the effect of the sol-gel encapsulation on the conformation and aggregation states of the three major phycobiliproteins present in **phycobilisomes**: phycoerythrin, phycocyanin, and allophycocyanin. It is found that the effects of sol-gel entrapment on the spectroscopic properties are significantly different for the three phycobiliproteins. The results indicate that phycoerythrin undergoes only minor change in its native structure when entrapped in sol-gel. However, significant changes in conformation and aggregation state occur when phycocyanin and allophycocyanin are entrapped in sol-gel matrixes. A thin film of sol-gel encapsulated phycoerythrin is also coated on an **optical fiber** surface and strong fluorescence from the evanescent wave excitation is detected. The potential applications of sol-gel encapsulated phycobiliproteins in biosensors are discussed.

=> log y]

'Y]' IS NOT VALID HERE

For an explanation, enter "HELP LOGOFF".

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

20.05

21.10

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

CAS search: 09/06/01

CA SUBSCRIBER PRICE

ENTRY

-0.65

SESSION

-0.65

STN INTERNATIONAL LOGOFF AT 16:20:15 ON 16 JUN 2003